Job: _____

Engineer: _____

Contractor: _____

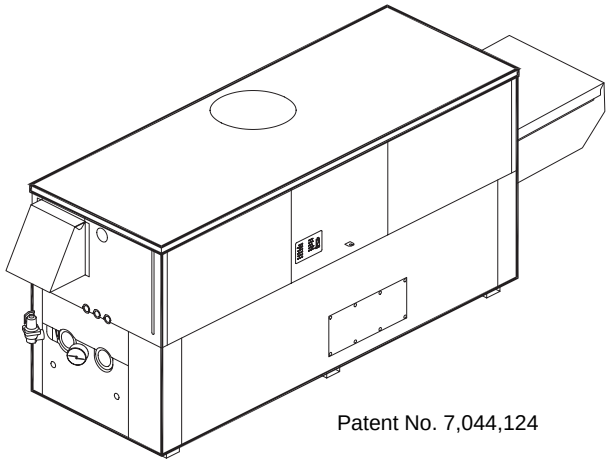
Prepared By: _____ Date: _____

Model: _____ Indoor/Outdoor: _____ MBTUH Input: _____

Hi Delta® - Type WH

Water Heaters
Models 302B-902B

100% Factory Fire Tested
Efficiency: 85%
Maximum Outlet Temperature: 210°F
Minimum Non-Condensing Inlet Temperature: 105°F
Thermal Shock Proof Heat Exchanger
Limited Twenty-Year Thermal Shock Warranty
Limited Five-Year Heat Exchanger Warranty
Diagnostic Center with Fault History
PolyTuf Powder Coated Cabinet
No Combustible Floor Shield Required
Fan-Assisted
Patented Burner Security Blanket



Patent No. 7,044,124

Heat Exchanger
- HLW Stamp
- Headers
  - ☐ Bronze – Standard
  - ☐ Glass-Lined Cast Iron – Option A-2
- ASME Inspected and Stamped 160 PSIG Working Pressure
- National Board Approved
- Fin Tubing
  - ☐ Copper – Standard
  - ☐ Cupro Nickel – Option A-3
- ASME Steel Tube Sheet
- Silicone High Temp. O-Rings
- ASME Pressure Relief Valve
  - ☐ 125 PSIG – Standard
  - ☐ _____ PSIG – Optional
- Temperature and Pressure Gauge
- Water Connections
  - ☐ Left – Standard
  - ☐ Right – Option A-6

Controls
- 120V, 60Hz, 1∅ Power Supply
- 120/24V 60Hz Transformer
- 100% Shut-Off/Lockout
- Hot Surface Ignition
- Remote Flame Sensor
- High Limit Control, Manual Reset
- On/Off Power Switch
- Manual Shut-Off, Front-Mounted
- Flow Switch
- Blocked Vent Pressure Switch
- Combustion Air Proving Switch
- Economaster Pump Time Delay
- Enable/Disable

Gas Train
- Manual Gas Shut-Off Valve(s)
- Gas Pressure Regulator
- Safety Shut-Off Valve
- Firing Control Valve
- Firing Mode
  - ☐ On/Off: Models 302B-402B
  - ☐ 2-Stage: Models 302B-902B
- Fuel
  - ☐ Natural Gas
  - ☐ Propane Gas
  - ☐ 4" WC Gas Supply Pressure G-20
- Design Certified - ANSI Z21.10.3/ CSA 4.3

Construction
- Indoor/Outdoor Construction
- Front Controls Enclosed
- PolyTuf Powder Coat Finish

Venting
- Vent Location
  - ☐ Top – Standard
  - ☐ Rear – Option D-14
- Vent Termination Cap
  - ☐ Outdoor D-11
  - ☐ Indoor, Horizontal D-15
  - ☐ Indoor, Vertical (by others)
- Combustion Air
  - ☐ In-Line Filter Kit (TruSeal only) D-17
  - ☐ Air Intake Elbow D-16
- Extractor – Optional
  - ☐ By others
  - ☐ Not required

Burner
- Ultra-Low NOx: Less than 30 PPM

Temperature Controls
- ☐ B-2 Tankstat, Single-Stage (100-200°F)
- ☐ B-3 Tankstat, 2-Stage (100-200°F)
- ☐ B-21 TempTracker Digital Controller, 4-Stage
- ☐ B-25 Raytemp Digital Controller, 4-Stage
- ☐ Y-241 Electronic Sequencer, 4-Stage
- ☐ Y-281 Electronic Sequencer, 8-Stage

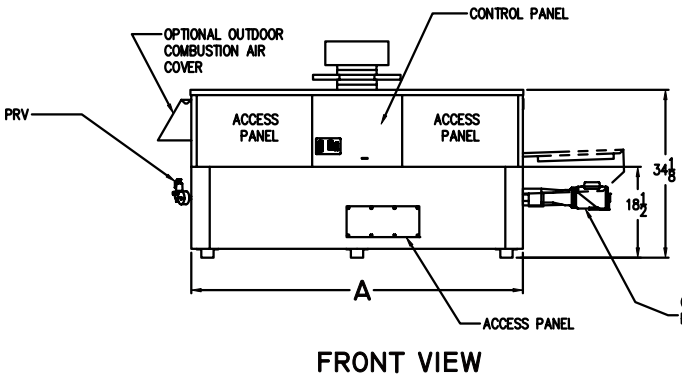
Options
- ☐ C-6 Ignition Module, Manual Reset
- ☐ D-21 TruSeal® Direct Vent
- ☐ F-10 Low Water Cut-Off, Remote Probe
- ☐ I-1 High Limit Control, Auto Reset
- ☐ P-__ Pump: _____ HP, 120V, 1∅, 60Hz
  Water Hardness: _____ GPG
  - ☐ Cast Iron ☐ Bronze
  - ☐ Mounted ☐ Loose
  - ☐ Front ☐ Rear
- ☐ P-26 Cold Water Start (See 2000.48)
- ☐ S-1 Low Gas Pressure Switch, Manual
- ☐ S-2 High Gas Pressure Switch, Manual
- ☐ X-1 SureRack™ Kit
- ☐ X-2 SureRack Add-on
- ☐ ____ _____

Regulatory Agency Requirements
- ☐ _____

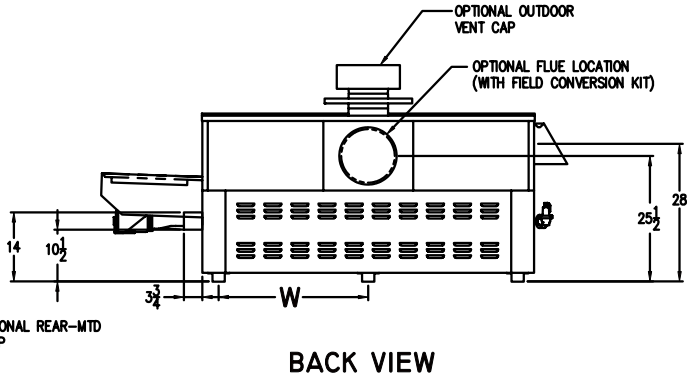
Raypak® A Rheem® Company

Hi Delta – Type WH
Models 302B-902B

Model _____

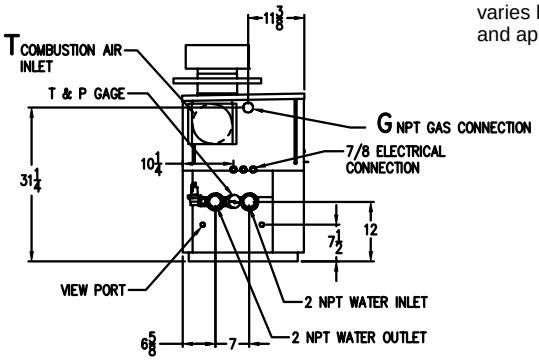


FRONT VIEW

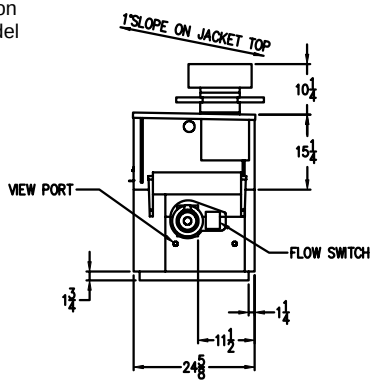


BACK VIEW

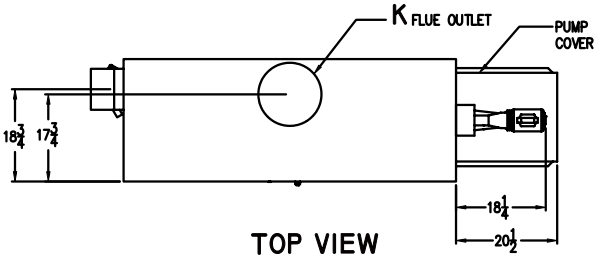
NOTE: Pump location varies based on model and application.



LEFT SIDE



RIGHT SIDE



TOP VIEW

SPECIFICATIONS

Model	MBTUH Input	MBTUH Output	A Width	G NPT	H NPT	K	T	W	Amp. Draw	Approx. Shipping Wt. (Lbs)
302B	300	255	36	3/4	2	5	6	18	6	380
402B	399	339	43	3/4	2	6	6	18-1/2	6	445
502B	500	425	50	1-1/4	2	6	6	22	6	545
652B	650	553	60-1/2	1-1/4	2	8	6	27-1/4	6	590
752B	750	638	67-1/2	1-1/4	2	8	6	30-3/4	6	675
902B	900	765	78	1-1/4	2	8	6	36	7	740

Dimensions are in inches.

RATES OF FLOW AND PRESSURE DROPS

Model	10°F ΔT GPM	10°F ΔT ΔP (ft)	20°F ΔT GPM	20°F ΔT ΔP (ft)	30°F ΔT GPM	30°F ΔT ΔP (ft)	Min. Flow GPM	Min. Flow ΔP (ft)	Min. Flow ΔT	Max. Flow GPM	Max. Flow ΔP (ft)	Max. Flow ΔT
302B	52	3.3	N/A	N/A	N/A	N/A	40	2.0	13	90	9.8	6
402B	68	5.4	N/A	N/A	N/A	N/A	40	2.0	17	90	10.0	8
502B	86	9.3	43	2.3	N/A	N/A	40	2.1	21	90	10.4	9
652B	N/A	N/A	56	4.2	N/A	N/A	40	2.2	28	90	10.8	12
752B	N/A	N/A	64	5.3	42	2.6	42	2.6	30	90	11.3	14
902B	N/A	N/A	77	8.5	51	3.9	51	3.9	30	90	11.7	17

Basis is 40 GPM or 30°F ΔT for minimum flow, 90 GPM for maximum flow.

RECOVERY RATES (GPH)

Model	Temperature Rise in °F 20°	30°	40°	50°	60°	70°	80°	90°	100°
302B	1545	1030	773	618	515	442	386	343	309
402B	2055	1370	1028	822	685	587	514	457	411
502B	2576	1717	1288	1030	859	736	644	572	515
652B	3348	2232	1674	1339	1116	957	837	744	670
752B	3864	2576	1932	1545	1288	1104	966	859	773
902B	4636	3091	2318	1855	1545	1325	1159	1030	927

NOTES: 1. Rates shown are for natural or propane gas, and elevations up to 5,000 feet. For installation above 5,000 feet, please contact manufacturer.
2. Required natural gas pressure is 7 – 10.5" WC. Required propane gas pressure is 11 - 13" WC.

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Catalog No.: 3500.252D Effective: 11-15-07 Replaces: 1-1-07